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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,715	05/24/2004	Kuo-Hsing Cheng	11586-US-PA	3714

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JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE
7 FLOOR-1, NO. 100
ROOSEVELT ROAD, SECTION 2
TAIPEI, 100
TAIWAN

EXAMINER

MOON, SEOKYUN

ART UNIT	PAPER NUMBER
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2629

NOTIFICATION DATE	DELIVERY MODE
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02/20/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USA@JCIPGROUP.COM.TW

Office Action Summary

Application No.

10/709,715

Applicant(s)

CHENG, KUO-HSING

Examiner

Seokyun Moon

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 24 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. The Applicant's arguments with respect to newly amended claims have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. **Claims 1-4** are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to **claim 1**, the claim discloses undefined characters such as "J", "K", "L", "M", and "N".

Appropriate correction/explanation is required.

As to **claims 2-4**, the claims are rejected as being dependent upon a base claim rejected under 35 U.S.C. 112, second paragraph.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

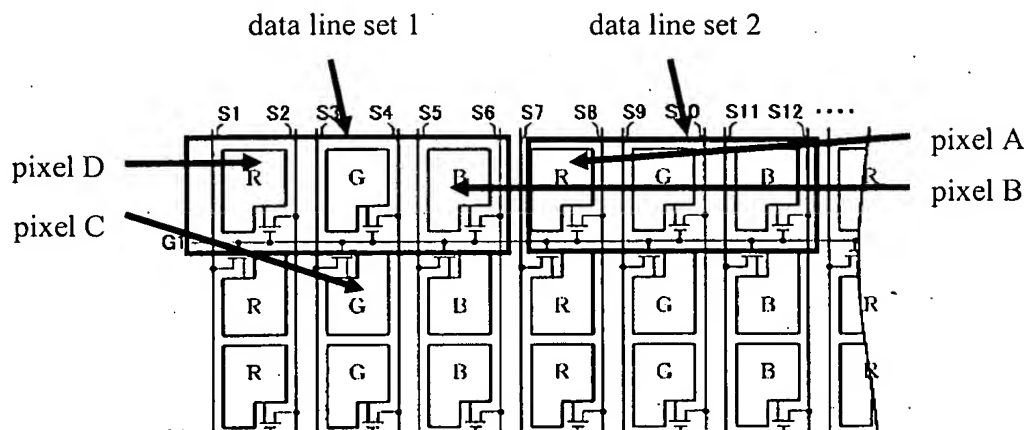
5. **Claims 5 and 7** are rejected under 35 U.S.C. 102(e) as being anticipated by Sawabe (US 2003/0146893).

As to **claim 5**, Sawabe teaches a driving method for a pixel array [fig. 2], each row of the pixel array comprising at least one pixel set (two rows of three consecutive pixel electrodes, “*R*”, “*G*”, and “*B*”) [fig. 3 and par. (0106)], at least one of the pixel set comprising a plurality of pixels (the two rows of three consecutive “*R*”, “*G*”, and “*B*” pixel electrodes), each pixel set corresponding to a data line set [drawing 1 provided on page 4 of this Office Action, which is equivalent to fig. 2 of Sawabe], the driving method comprising:

determining whether a prior data line and a recent data line belong to same data line set or not (when the prior data line and the recent data line do not belong to same data line set, the source of the image data applied to each of the prior and the recent data lines are different, and thus it is inherent to determine whether a prior data line and a recent data line belong to same data line set or not, in order to determine the image data to be applied to the data lines.);

wherein when the prior data line (“*S6*”) [drawing 1] and the recent data line (“*S8*”) do not belong to same data line set, the recent data line (“*S8*”) is used to drive the pixel (“*pixel A*”) disposed neighboring the pixel (“*pixel B*”) driven by the prior data line (“*S6*”), and the pixel (“*pixel B*”) driven by the prior data line (“*S6*”) and the pixel (“*pixel A*”) driven by the recent data line (“*S8*”) are in the same row and driven by the same gate line (“*G1*”); and

when the prior data line (“*S2*”) [drawing 1] and the recent data line (“*S3*”) belong to same data line set, the recent data line (“*S3*”) is used to drive a pixel (“*pixel C*”) disposed in another row apart from the pixel (“*pixel D*”) driven by the prior data line, wherein the pixel (“*pixel D*”) driven by the prior data line and the pixel (“*pixel C*”) driven by the recent data line are driven by the same gate line (“*G1*”).



Drawing 1

As to **claim 7**, Sawabe teaches that a number of the pixels of each of the pixel set is $3 \times M$ ("6") [fig. 2], wherein M ("2") is a positive integer.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claim 6** is rejected under 35 U.S.C. 103(a) as being unpatentable over Sawabe.

Sawabe teaches that each of the pixel sets comprises six pixels.

Sawabe does not expressly teach each of the pixel sets comprising three pixels.

However, since the Applicant have failed to disclose specifying the number of pixels included in each of the pixel sets as being three provides an advantage, is used for a particular purpose, or solves a state problem, it would be an obvious matter of design choice to specify the number of pixels in each of the pixels sets as being three.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to include any one of three, six, nine, ..., and $3 \times M$ (wherein M is an integer) pixels in each of the pixel sets since specifying the number of pixels included in each of the pixel sets as being any one of three, six, nine, ..., and $3 \times M$ would perform equally well at reducing cross-talk (the purpose of the instant invention) [Specification: paragraph (0019)].

Conclusion

7. The Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seokyun Moon whose telephone number is (571) 272-5552. The examiner can normally be reached on Mon - Fri (8:30 a.m. - 5:00 p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

February 12, 2008

- s.m.



ALEXANDER EISEN
SUPERVISORY PATENT EXAMINER